



Metal and Polymer Matrix Composites: Processing and Applications

Guest Editor:

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Message from the Guest Editor

Design, manufacturing and the definition of new applications for metal and polymer matrix composites are high perspectives for modern materials science. MMC and PMC materials have unique advantages over monolithic materials, such as high strength, high stiffness, long fatigue life, low density, and adaptability to the intended function of the structure. To obtain metal, ceramics and polymer matrix composites, it is necessary to solve important fundamental problems concerning the evolution of the hierarchical structure of materials during advanced technological processing. An important role in the process of material creation concerns the simulation of structural and functional properties by designing structures at atomic and molecular levels.

Hot topics to be covered by the Special Issue:

- Composite materials on the basis of metals, alloys and ceramics
- Advanced technologies of composite materials manufacturing including 3D printing
- Testing of composites, peculiarities of new methods
- Organic spintronics
- Various applications of advanced MMC and PMC materials





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Message from the Editor-in-Chief

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